2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 11

WRIA	Listing ID Cate	gory	98 List?	Waterbody Name Basis	Location I	nforma	tion			Parameter	Remarks	Medium
11	6329	5	Y	CLEAR LAKE Data Collected by the Thurston County and Dept. of Ecology (submitted by Sue Davis on 10 by severe algae blooms. Completed Phase I State Clean Lakes Restoration Project in 1994: Tacoma-Pierce County H	,	w eutro		-	s and impacts to re	Total Phosp creation caused	ohorus	Water
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 20 uquality standards nutrient criterion for the Puget Lowlands Ecoregion.	ug/L from sa	amples	collecte	ed in 19	81 which does not	exceed the wate	r	
11	22174	5	N	EAST CREEK	JT45YU	6.952	141	N 04E	12	Temperatui	re	Water
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 Decer degrees C from continuous measurements collected during 2002 at the station called 'East C					of daily maximum	value of 16.5		
11	8680	5	Υ	HARTS LAKE	240QMC	16N	03E	07		Total Phos	ohorus	Water
				Singleton, 1983, Eutrophic conditions causing fish kills and hypolimnetic anoxia.								
				O'Neal et al. (2001) concludes that designated uses are not being supported.								
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 442 standards nutrient criterion for the Puget Lowlands Ecoregion.	ug/L from	sample	s collec	ted in 1	981 which exceeds	s the water qualit	y	
11	22177	5	N	LITTLE NISQUALLY RIVER	UL30WE	5.892	2 151	N 04E	33	Temperatui	re	Water
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 Decer degrees C from continuous measurements collected during 2002 at the station called 'Little N						value of 17		
11	22180	5	N	LITTLE NISQUALLY RIVER, W.F.	WS70LK	3.262	141	N 04E	20	Temperatu	е	Water
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 Decer degrees C from continuous measurements collected during 2002 at the station called 'West								
11	22181	5	N	LITTLE NISQUALLY RIVER, W.F.	WS70LK	1.422	2 141	N 04E	17	Temperatui	re	Water
				Gifford Pinchot National Forest unpublished data (submitted by Claire Lavendel on 16 Decer degrees C from continuous measurements collected during 2002 at the station called 'West	,				,			

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MASHEL RIVER KU71FS 14.736 16N 05E 17 Temperature Water

Nisqually Indian Tribe unpublished data (submitted by Sayre Hodgson on 6 February 2003) at RM MR85 show a 7-day mean of maximum daily temperature of 19.6 degrees C, with a maximum daily temperature of 20.7 degrees C from continuous measurements collected in 1994.

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WRIA I	isting ID Cat	tegory	98 List?	Waterbody Name Basis	Location In	formatio	n			Parameter	Medium Remarks	
11	7529	5	Y	MCALLISTER CREEK Data Collected by Thurston County (submitted by Sue Davis on 10/30/97) show 12 excursion McAllister Creek RM 2.5 (Interstate 5) in 1995-1996.	LD26OX ons beyond th	-		01E of 12 sa		Dissolved of	During the assessment of data it was determined that W Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.0 impairments. Based on a review of monitoring studies for statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be	O. or
to											used as an alternative indicator that a waterbody continu be impaired. (Braley, ECY/WQP, 2003)	
11	7532	5	Υ	MCALLISTER CREEK Data Collected by the Nisqually Tribe (submitted by Sue Davis on 10/30/97) show 27 excurs McAllister Creek RM 3.1 between 1993 and 1996.	LD26OX sions beyond					Dissolved o	oxygen Water	
11	7530	5	Y	MCALLISTER CREEK Data Collected by Thurston County (submitted by Sue Davis on 10/30/97) show a geometric of 6 samples collected at McAllister Creek RM 2.5 (Interstate 5) in 1994-1995. Data from the Dept. of Ecology EIM database for the Project BEDI0005 (MCALLISTER CRCREEK (MC41)) shows the geometric mean of 33.5275951972657 does not exceed the criticiterion from 4 samples collected during 2001. Data from the Dept. of Ecology EIM database for the Project BEDI0005 (MCALLISTER CRCREEK (MC30)) shows the geometric mean of 93.407840767339 does not exceed the criticipercentile criterion from 26 samples collected during 2001.	REEK WATEI terion and tha REEK WATEI	org/100i R QUALI at 0 % of	mL with	RVEY) mples c	exceeding te percer station MC41 (MCA does not exceed the station MC30 (MCA	ALLISTER e percentile ALLISTER		
11	7531	5	Y	MCALLISTER CREEK Data Collected by the Nisqually Tribe (submitted by Sue Davis on 10/30/97) show a geometrout of 15 samples collected at McAllister Creek RM 3.1 during 1995-1996. Data from the Dept. of Ecology EIM database for the Project BEDI0005 (MCALLISTER CREEK (MC34)) shows the geometric mean of 82.9214533349075 does not exceed the critical percentile criterion from 7 samples collected during 2001.	REEK WATEI	201 org/1	00mL v	RVEY)	% exceeding te per station MC34 (MCA	ALLISTER		

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Data from the Dept. of Ecology EIM database for the Project BEDI0005 (MCALLISTER CREEK WATER QUALITY SURVEY) station MC32 (MCALLISTER CREEK (MC32)) shows the geometric mean of 74.0869209206688 does not exceed the criterion and that 33.333333333333333333 % of the samples exceeds the percentile criterion from 9 samples collected during 2001.

WRIA	Listing ID Cat	tegory	98 List?	Waterbody Name Basis	Location I	nformatio	on			Parameter	Remarks	Medium
11	39746	5	N	NISQUALLY REACH/DRAYTON PASSAGE Department of Health unpublished data collected from station NISQUALLY REACH-224 shot the percentile criterion with the last sample collected on 3-Dec-2001.	390KRD w a geomet	47122 tric mear	_	47.095 fu/100mL a	122.725 nd 30% of sam	Fecal Colifor	rm	Water
				Department of Health unpublished data collected from station NISQUALLY REACH-234 shot the percentile criterion with the last sample collected on 3-Dec-2001.	w a geomet	tric mear	n of 34 c	fu/100mL a	nd 50% of sam	ples exceed		
11	39748	5	N	NISQUALLY REACH/DRAYTON PASSAGE	390KRD	47122	A6J9	47.095	122.695	Fecal Colifor	rm	Water
				Department of Health unpublished data collected from station NISQUALLY REACH-235 sho samples exceed the percentile criterion with the last sample collected on 3-Dec-2001.	w a geomet	tric mear	n of 16 c	fu/100mL a	nd 16.666666	666667% of		
11	39749	5	N	NISQUALLY REACH/DRAYTON PASSAGE	390KRD	47122	A7J0	47.095	122.705	Fecal Colifor	rm	Water
				Department of Health unpublished data collected from station NISQUALLY REACH-236 sho samples exceed the percentile criterion with the last sample collected on 3-Dec-2001.	w a geomet	tric mear	n of 14 c	fu/100mL a	nd 16.666666	666667% of		
11	39750	5	N	NISQUALLY REACH/DRAYTON PASSAGE	390KRD	47122	B7B1	47.115	122.715	Fecal Colifo	rm	Water
				Department of Health unpublished data collected from station NISQUALLY REACH-245 sho samples exceed the percentile criterion with the last sample collected on 3-Dec-2001.	w a geomet	tric mear	n of 6 cfu	u/100mL an	d 13.33333333	33333% of		
11	39752	5	N	NISQUALLY REACH/DRAYTON PASSAGE	390KRD	47122	B6B8	47.115	122.685	Fecal Colifor	rm	Water
				Department of Health unpublished data collected from station NISQUALLY REACH-247 sho samples exceed the percentile criterion with the last sample collected on 3-Dec-2001.	w a geomet	tric mear	n of 6 cfu	u/100mL an	d 16.6666666	66667% of		
11	7533	5	Υ	OHOP CREEK	MW64EU	0	16N	03E 25		Fecal Colifor	rm	Water
				Nisqually Tribal data (submitted by Anthony Whiley 2/16/96) show numerous high levels from	n samples o	collected	at the m	nouth by the	e between 1991	and 1995.		were previously submitted only in e water segment is listed as Category 5
	Nisqually River Education Project station Ohop Creek@Kjelstad Rd. data show a geometric mean of 69 cfu/100mL from 2 samples collected in 2001. Nisqually based on the 1998 assessment. River Education Project station Ohop Creek@Kjelstad Rd. data show a geometric mean of 28 cfu/100mL from 2 samples collected in 2002.											
11	6360	5	Y	OHOP LAKE	688HMI	16N	04E 1	0		Total Phosp	horus	Water
				Phase I State Clean Lakes Restoration Project: Problems encountered - impaired salmon refinal report completed in 5/97.	aring habita	at, increa	asing alg	al blooms,	excessive macr	ophyte growth.		
				Sumioka and Dion (1985) show a summer epilimnetic total phosphorus concentration of 59 ustandards nutrient criterion for the Puget Lowlands Ecoregion.	ug/L from sa	amples o	collected	in 1981 wh	ich exceeds the	e water quality		

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